



# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Molisch et al.

Title: RF SIGNAL PROCESSING IN MULTI-ANTENNA SYSTEMS

Serial No.: 10/629,240

Filing Date: July 29, 2003

EXPRESS MAIL mailing label number:

ED 184245175 US Date of Deposit:

I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL in an envelope addressed to: The Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on:

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

PLG 2/93 IDS.FRM

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR \$1.97 checked below:

X 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

- \_\_\_ 1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:
  - (1) A Final Action under 37 CFR 1.113; OR
  - (2) A Notice of Allowance under 37 CFR 1.311;

AND is accompanied by either: (check one)

- the Certification under 37 CFR 1.97(e) as set out below; OR
- \_\_\_\_ the fee of \$240.00 under 37 CFR 1.17(p).
- \_\_ 1.97(d) This Information Disclosure Statement is filed after the mailing date of either:
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BUT before payment of the Issue Fee, AND is accompanied by:

- (1) the Certification under 37 CFR 1.97(e) as set out below; AND
- (2) Petition is hereby made under 37 CFR
  1.97(d) for consideration of this
  Information Disclosure Statement; AND,
- (3) Authorization to charge the petition fee of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby

### certifies that:

each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Statement;

## <u>or</u>

no item of information contained in this Information
Disclosure Statement was cited in a communication from
a foreign patent office in a counterpart foreign
application, or to the knowledge of the undersigned
Attorney after making reasonable enquiry, was known to
any individual designated in 37 CFR 1.56(c) more than
three months prior to the filing date of this
Statement.

Authorization is hereby given to charge the indicated fee(s) to Deposit Account No. 50-0749.

Please charge any additional fee due for this paper to Deposit Account No. 50-0749.

Respectfully submitted,

MITSUBISHI ELECTRAC RESEARCH LABORATORIES

By:

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Customer No. 022199

Enclosures

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# U.S. PATENT DOCUMENTS

Patent number	r	Date	Name	Class	Subclass	Filing date if appropriate
10,3//,0	31	April 23, 2002	Raleigh	375	299	

U.S. DEPT OF COMMERCE Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

NOV 1 8 2004

(Use severa

Form PTO-1449 (modified 2/91)

# U.S. PATENT APPLICATION

Application number	Filing Date	Name	Class	Subclass	Filing date if appropriate
09/769,445	January 26, 2001	Gore et al.	455	101	

# FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Subclass	Translation	
					YES	NO
WO 02/47286	June 13, 2002	PCT	H04B 7	00	1	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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